



# Consulting

## Fordham Plastics & ZAG Equipment Sales Inc.



### Your Industry Expert and Consultant, Marty Key

Marty has over 20 years of injection molding experience. He has worked in the automotive, white goods, packaging, and medical industries. Marty's roles have included technical operations, management, engineering, training, and consulting.

Marty has an extensive background in scientific molding principles, process development, validation protocols for installation, operation, and performance development, performed project management for strategic sourcing, coordinated tool designs with mold builders, and tool transfers to external suppliers. He has implemented and experience with robotics, conveying, and automation cells, monitoring and control systems, vision systems, hot runner controllers, and various auxiliary systems during his career in plastics. Marty earned an AAS in Plastics Manufacturing Technology at Davidson County Community College and has completed his BS in Industrial Engineering Technology at East Carolina University.



**Contact Marty at (919) 625-4695 or [Marty@FordhamPlastics.com](mailto:Marty@FordhamPlastics.com).**



Fordham Plastics Equipment Corporation, established in 1999, markets high quality equipment to the Plastics Industry. Fordham Plastics' mission is to provide solutions which help plastics processors manufacture quality products at lower overall costs.

We know from our customers to compete and succeed in the global plastics industry today, we require superior technology, excellent support and extensive training.



Founded in 2004, ZAG is a leading supplier of high-quality plastics manufacturing equipment offering a full inventory of pre-owned plastics injection molding, extrusion, and blow molding machines, along with auxiliary and general manufacturing equipment.

With combined industry experience of nearly 100 years, our staff easily supports our customers through the purchase and sales processes.





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<b>Process Development</b>	Over 15 years of experience in developing and documenting processes based on scientific injection molding principles. This rigorous development leads to a consistent, robust, repeatable process.
<b>Process Validation</b>	Medical molding background validation of the injection molding process through Design of Experiments (DOE), Installation Qualification (IQ), Operational Qualification (OQ), and Performance Qualification (PQ).
<b>Failure Investigation and Corrective Action</b>	Extensive experience allow Marty to create a structured approach to determining the cause and contributing factors of a product or process failure. This can include failure investigation and corrective action. Create and implement corrective actions for identified failures.
<b>Foundational Molding Instruction</b>	Develop employees understanding of essential material handling, mold set up, processing and troubleshooting through hands on guidance.

### Manufacturing Support

- Project Management
- Cell Layout
- Lean Manufacturing
- 5S Methodology
- SMED Implementation
- Failure Investigation
- Corrective Action

### Process Improvement

- Process Consulting
- Machine Selection
- Material Handling Instruction
- Mold Set Up Instruction
- Process Improvement
- Cycle Time Reduction
- Technology Implementation
- Instrumented Molding Implementation
- Machine Testing and Assessment

### Validation

- Tool Launch
- Tool transfer
- Process Development
- Design of Experiments (DOE)
- Installation Qualifications (IQ)
- Operational Qualifications (OQ)
- Performance Qualifications (PQ)